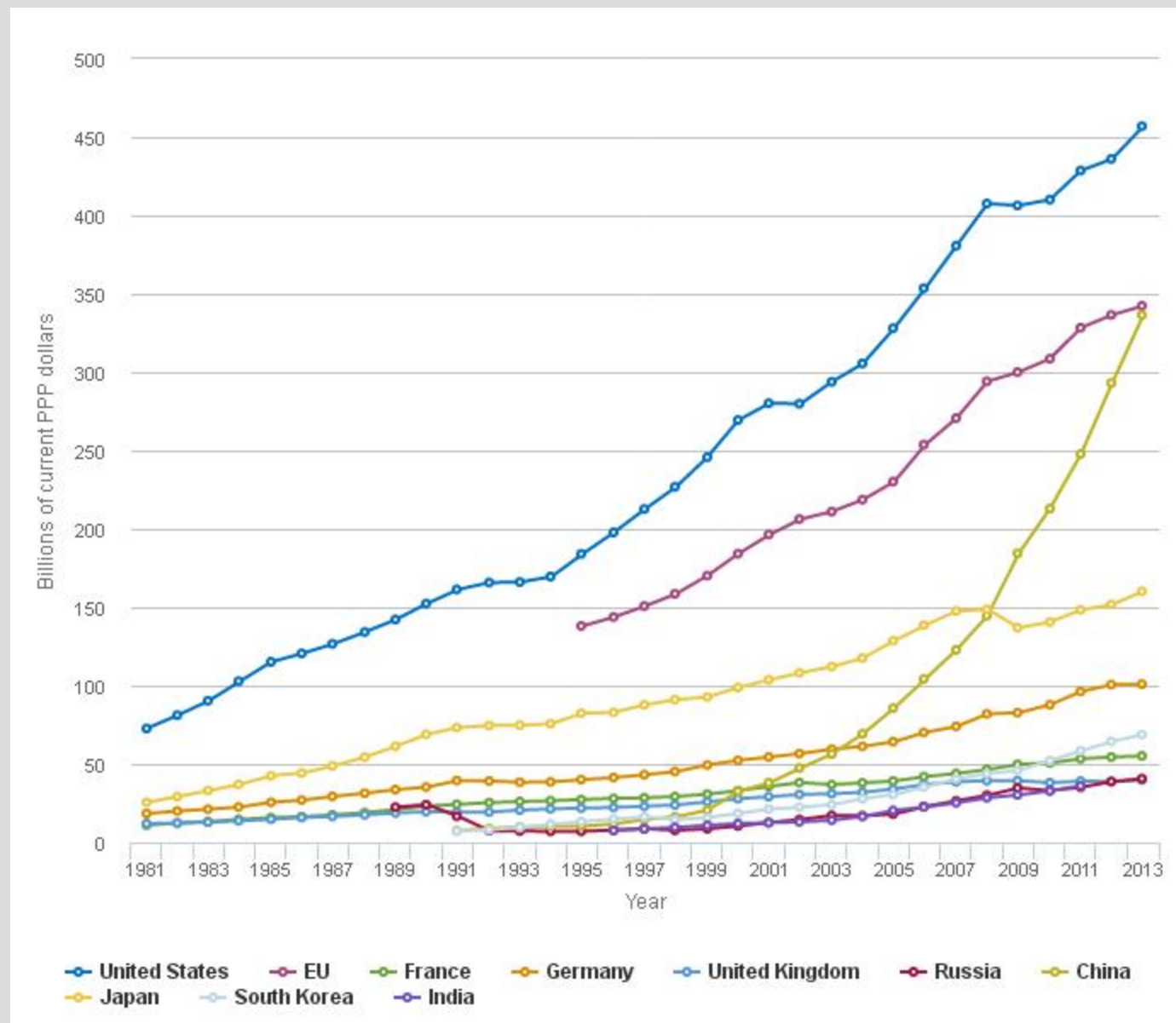


**Figure 4-8**
**Gross domestic expenditures on R&D, by the United States, the EU, and selected other countries: 1981–2013**


NA = not available.

EU = European Union; PPP = purchasing power parity.

NOTES: Data are for the top nine R&D-performing countries and the EU. Data are not available for all countries for all years. Data for the United States in this figure reflect international standards for calculating gross expenditures on R&D, which vary slightly from the National Science Foundation's protocol for tallying U.S. total R&D. Data for Japan for 1996 onward may not be consistent with earlier data because of changes in methodology. Data for Germany for 1981–90 are for West Germany.

SOURCES: National Science Foundation, National Center for Science and Engineering Statistics, National Patterns of R&D Resources (annual series); Organisation for Economic Co-operation and Development, *Main Science and Technology Indicators* (2015/1); United Nations Educational, Scientific and Cultural Organization Institute for Statistics Data Centre, <http://www.uis.unesco.org/DataCentre/Pages/BrowseScience.aspx>, accessed 23 January 2015. See appendix table 4-12.